

Abstract

A molding process of composite material including high-thermal-conductor and room-temperature magnetic refrigerant comprises the steps of nesting magnetic refrigerant with high-thermal-conductor and connecting them mutually, especially making the room-temperature magnetic-thermal-conductor into sheet, strip or filament, inserting the high-thermal-conductors' sheet, strip or filament in the room-temperature magnetic refrigerant's sheet or filament and connecting them fully. This invention has solved the application of the room-temperature magnetic-thermal-conductor, particularly the application of the room-temperature magnetic-thermal-conductor which is lower thermal-conductor, easier oxidation and powdering. The invention utilizes the high thermal-conductor to solve the problem of room-temperature magnetic refrigerant which is poor in conventional heat exchange, meanwhile decreases the loss of the magnetic-thermal effect.